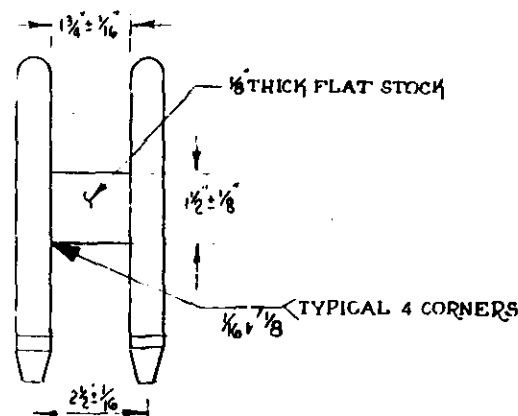


REAR ELEVATION

SIDE ELEVATION

DETAIL

MOUNTING FLANGE ASSEMBLY  
SCALE: 1/4" = 1"



DETAIL

SCALE: 1/2" = 1"

### GENERAL NOTES

1. ALL MATERIAL SHALL BE 300 SERIES STAINLESS STEEL.
2. BORE THROUGH CONNECTORS TO PERMIT PASSAGE OF TUBING. DO NOT TIGHTEN TUBING FITTINGS PRIOR TO COMPLETION OF INSTALLATION ADJUSTMENTS.
3. PROVIDE PERMANENT IDENTIFICATION AS SHOWN USING STEEL STAMPS AND MINIMUM 1/4" HIGH LETTERS.
4. THIS PROBE ASSEMBLY IS DESIGNED TO PROVIDE NEAR ISO-KINETIC SAMPLING UNDER THE FOLLOWING CONDITIONS:
 

STACK VELOCITY/FLOW RATE	EXTRACTION RATE
850 FPM / 27,500 CFM	1.7 CFM
1140 FPM / 37,000 CFM	2.3 CFM
1330 FPM / 43,000 CFM	2.7 CFM
1580 FPM / 51,000 CFM	3.2 CFM
1760 FPM / 57,000 CFM	3.6 CFM
1860 FPM / 60,000 CFM	3.8 CFM
5. ALL WELDS SHALL BE VISUALLY EXAMINED. ALL TUBING SHALL BE ARGON PURGED PRIOR TO AND DURING WELDING. ALL WELDING SHALL BE BY GTAW PROCESS. WELDERS SHALL BE QUALIFIED TO SECTION 9 OF ASME BOILER CODE.

### Rockwell Hanford Operations

RELEASE ENGINEERING ORDER **REC-M211**  
RELEASE DATE **08-19-1991** REV **R001**


INFORMATION  
AUTHORIZED  
CONTROLLED  
CONSTRUCTION WORK ORDER  
ATTACHMENTS NOT REQUESTED  
THIS DOCUMENT IS NOT COMPLETE WITHOUT THE FOLLOWING ATTACHMENTS:

ROCKWELL APPROVAL BY <b>R. J. ULO-S</b> DATE <b>4/1/92</b>		U. S. DEPARTMENT OF ENERGY <b>Richland Operations Office</b> <b>KAISER ENGINEERS HANFORD COMPANY</b>	
APPROVED BY <b>J. E. Bred</b> DATE <b>8/7/92</b> APPROVED BY <b>J. E. Bred</b> DATE <b>8/7/92</b> APPROVED BY <b>J. E. Bred</b> DATE <b>8/7/92</b>		<b>PROBE ASSEMBLY</b> <b>291-B; STACK</b> <b>SAMPLER/MONITOR</b>	
PROJECT TYPE <b>B-PLANT EXHAUST STACK UPGRADE</b>		PROJECT NO. <b>B-432</b>	
DESIGNED BY <b>R. C. SMAN</b> DATE <b>7/92</b> CHECKED BY <b>DUNKS</b> DATE <b>4/93</b> APPROVED BY <b>DUNKS</b> DATE <b>4/93</b>		DRAWING NO. <b>143202</b>	
CLASSIFICATION BY <b>NONE</b>		DRAWING NO. <b>291-B-1</b>	
NOT REQD		<b>H-2-94159</b>	

NUMBER	TITLE	BY DATE	BY DATE	REV	DESCRIPTION
H-2-94158	DRAWING LIST	RHO	KEH APPROVAL	1	AS-BUILT FOR PROJECT B-432 REV PER NCR B-432-1, INDU-2
REVISIONS					
COMMENT REVIEW					

CAUTION

NOT COMPLETE WITHOUT  
CURRENT STATUS OF OUTSTANDING  
AND FROM DATA BASE

Date Received: <b>9-30-92 <i>cu</i></b>		<b>INFORMATION RELEASE REQUEST</b>		Reference: WHC-CM-3-4	
Complete for all Types of Release					
Purpose <input type="checkbox"/> Speech or Presentation <input type="checkbox"/> Full Paper (Check only one suffix) <input type="checkbox"/> Summary <input type="checkbox"/> Abstract <input type="checkbox"/> Visual Aid <input type="checkbox"/> Speakers Bureau <input type="checkbox"/> Poster Session <input type="checkbox"/> Videotape			<input type="checkbox"/> Reference <input type="checkbox"/> Technical Report <input type="checkbox"/> Thesis or Dissertation <input type="checkbox"/> Manual <input type="checkbox"/> Brochure/Flier <input type="checkbox"/> Software/Database <input type="checkbox"/> Controlled Document <input type="checkbox"/> Other: DOH INSPECTION OF B-PLANT'S EXHAUST FILTER SYSTEM 9/24/92.		
			ID Number (include revision, volume, etc.) <b>H-2-94159 SHEET 1 of 1 REV. 1</b>		
			List attachments.		
			Date Release Required <b>9/29/92</b>		
Title <b>PROBE ASSEMBLY 291-B-1 STACK SAMPLER/MONITOR</b>				Unclassified Category <b>UC-</b>	Impact Level
New or novel (patentable) subject matter? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If "Yes", has disclosure been submitted by WHC or other company? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Disclosure No(s).			Information received from others in confidence, such as proprietary data, trade secrets, and/or inventions? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Identify)		
Copyrights? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If "Yes", has written permission been granted? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Attach Permission)			Trademarks? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Identify)		
Complete for Speech or Presentation					
Title of Conference or Meeting <b>N/A</b>			Group or Society Sponsoring <b>N/A</b>		
Date(s) of Conference or Meeting <b>N/A</b>	City/State <b>N/A</b>	Will proceedings be published? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Will material be handed out? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Title of Journal <b>N/A</b>					
CHECKLIST FOR SIGNATORIES					
Review Required per WHC-CM-3-4		Yes	No	Reviewer - Signature Indicates Approval	
				Name (printed)	Signature Date
Classification/Unclassified Controlled Nuclear Information	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<b>J.W. BERLIN</b>	<i>[Signature]</i> 9/29/92
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WHC Program/Project	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<b>R.J. Murkowski</b>	<i>Mike Hall for</i> 9/29/92
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Publication Services	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
Other Program/Project	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
Information conforms to all applicable requirements. The above information is certified to be correct.					
References Available to Intended Audience <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		INFORMATION RELEASE ADMINISTRATION APPROVAL STAMP  Stamp is required before release. Release is contingent upon resolution of mandatory comments.  			
Transmit to DOE-HQ/Office of Scientific and Technical Information <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
Author/Requestor (Printed/Signature) <b>MIKE HALL</b> <i>Mike Hall</i> Date <b>9/28/92</b>					
Intended Audience <input type="checkbox"/> Internal <input type="checkbox"/> Sponsor <input checked="" type="checkbox"/> External					
Responsible Manager (Printed/Signature) <b>B.G. Erlandson</b> <i>[Signature]</i> Date <b>9/29/92</b>		Date Cancelled			
		Date Disapproved			

933022-93

[illegible]

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- ☐ Project or program manager concurs with the issuance of this report.
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- ☐ If a journal article, the reference style agrees with guidance from the client or journal publisher.
- ☐ Contributions from authors of other organizations indicated in the comment section of this form.
- ☐ Document is responsive to the client's scope of work.
- ☐ Client approved this for release.
- ☐ Document reports or reflects quality technical work.
- ☐ Scientific methodology used is logical and reasonable.
- ☐ Inferences and conclusions are soundly based.

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